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FIG. 2A CSG2

CAGGACTGCGTGTGCACGGACAAGGTGGACAACAACCCCTGCTCAACGTCAATCGCCTGC
Q D C V C T D K V D N N T L L N V I A C

ACCCACGTGCCCTGCAACACCTCCTGCAGCCCTGGGTTGGAACATCATGGAGGCCCCCGGG
T H V P C N T S C S P G F E L M E A P G

GAGTGCTGTAAAGAGTGTGAACAGACGCACTGTATCATCAACGGCCCGACAACACGAC
E C C K K C E Q T H C I I K R P D N Q H

GTCATCCTGAAGCCCGGGACTTCAAGAGCGACCCGAAGAACAACACTGCACATCTCTCAGC
V I L K P G D F K S D P K N N C T F F S

TGCGTGAAGATCCACAACCAGCTCATCTCGTCCGTTTCCAACATCACCTGCCCCAACTTT
C V K I H N Q L I S S V S N I T C P N F

GATGCCAGCATTTGCATCCCGGGCTCCATCACATTCATGCCCAATGGATGCTGCAAGACC
D A S I C I P G S I T F M P N G C C K T

TGCACCCCTCGCAATGAGACCAGGGTGCCCTGCTCCACCGTCCCGTCACCACCGAGGTT
C T P R N E T R V P C S T V P V T T E V

TCGTACGCCCGGCTGCACCAAGACCGTCTCATGATCATGCTCCGGTCTCGGGGACA
S Y A G C T K T V L M N H C S G S C G T

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FIG. 2B CSG2

TTTGTCACTCGGCCAAGGCCAGGCCCTGGACCACAGCTGCTCCTGCTGCAAGAG
F V M Y S A K A Q A L D H S C S C C K E

GAGAAACCAGCCAGCGTGAGGTGCTCCTGAGCTGCCCAATGGCGGCTCGCTGACACAC
E K T S Q R E V V L S C P N G G S L T H

ACCTACACCCACATCGAGAGCTGCCAGTGCCAGGACACCGTCTGCGGGCTCCCCACCGGC
T Y T H I E S C Q C Q D T V C G L P T G

ACCTCCCCGGCCCGCGTTCCCTAGGCATCTGGGGAGCGGGTGAGCGGGTGGGCA
T S R R A R S P R H L G S G

CAGCCCCTTCACTGCCCTCGACAGCTTTACCTCCCCCGACCCTCTGAGCCTCCTAAGCT

CGGCTTCCCTCTCTCAGATAATTATGTCTGAGTTTGTTCAGTCCTTGCTTTCCAATA

ATAAACTCAGGGGACATGCAAAAAATAAAAAA

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FIG. 3A CSG3

ATTGGTGCTACCTGGCTCTCCTGTCTCTGCAGCTCTACAGGTAGGCCCCAGCAGAGGGAG
 TAGGGCTCGCCATGTTTCTGGTGAGCCCAATTGGGCTGATCTTGGGTGCTGAACAGCTAT
 TGGGTCCACCCAGTCCCTTTTCAGCTGCTGCTTAATGCCCTGCTCTCTCCCTGGCCCCACC
 TTATAGAGAGCCCCAAAGAGCTCCTGTAGAGGGAGAACTCTATCTGTGTTTATAATCTT
 GCACGAGCACCAAGTCTCCCTGGGCTTGTGAATGAACACATTTATCCCTTTCTCT
 GCCCCAACCAAACTCTTTCCCTTCAAGAGGGCCTGCCCTGGTTCCCTCCACCCAACTGC
 ACCATGAGATCGGTCCAAGAGTCCATTCCCCAGGTGGAGCCAACTGTCAGGGAGGTCTT
 TCCCACCAAAACATCTTTTCAGTTGCTGGGAGGTGACCATAGGGCTCTGCTTTTAAAGATAT
 GGCTGCTTCAAAGGCCAGAGTCACAGGAAGGACTTCTTCCAGGGAGATTAGTGGTGATGG
 AGAGGAGAGTTAAATGACCTCATGTCTCTTGTCTCCACGGTTTGTGTGAGTTTTCACCTC
 TTCTAATGCAAGGGTCTCACACTGTGAACCACTTAGGATGTGATCATCTTTCAGGTGGCCA
 GGAATGTGAATGCTCTTTGGCTCAGTTCATCTAAAAAAGATATCTATTGAAAGTTCTCA

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FIG. 3B CSG3

GAGTTGTACATATGTTTCACAGTACAGGATCTGTACATAAAAGTTTCTTTCCCTAAACCAT
TCACCAAGAGCCAATATCTAGGCATTTCCCTCGGTAGCACAAATTTTCTNATTGCTTAGAA
AATTGTCCCTCCCTGTTCTTCTGCTCTGNAGACTTAAGTGAGTTAGTCTTTTAAGGAAAGC
AACGCTCCCTCTGAAATGCTTGCTCTTTTCTGTTGCCGAAATAGCTGGTCTTTTTCGGG
AGTTAGATGTATAGAGTGTTTGTATGTAAACATTTCTTGTAGGCATCACCCATGAACANAG
ATATATTTCTATTTANTTANTATATGTGCACTTCAAGAAGTCACCTGTCAGAGAAATAAA
GAATTGTCTTAAATGTCATGATGAGATGTCCCTTTTGCAATTGCTTGGAAGGGGTACCT
AGAGCCAAGGAAATTGGCTCTGCTTTGGGAAAAATTTTGCTGTTATTATAGTAAACATACA
AAGGATGTC

FIG. 4 CSG4

ATGAGTCCTGTGAAAAACAATGTGGGCAGAGGCCCTAAACATCGCCCTGCTGAATGGAACC
 M S P V K N N V G R G L N I A L V N G T
 ACGGAGCTGTGCTGGACAGAGGCATTTGACATGTACTCTGGAGATGTTATGCACCTA
 T G A V L G Q K A F D M Y S G D V M H L
 GTGAAATTCCTTAAAGAAATTCGGGGGTGCACTGGTGCTGGTGCCCTCCTACGACGAT
 V K F L K E I P G G A L V L V A S Y D D
 CCAGGACCAAAATGAACGATGAAGCAGGAACTCTTCTCTGACTTGGGAGTTCCCTAC
 P G T K M N D E S R K L F S D L G S S Y
 GCAAAACAACCTGGGCTTCGGGACAGCTGGGTCTTCATAGGAGCCAAAGACCTCAGGGGT
 A K Q L G F R D S W V F I G A K D L R G
 AAAAGCCCCCTTTGAGCAGTTCTTAAAGAACAGCCCCAGACACAAACAATACGAGGATGG
 K S P F E Q F L K N S P D T N K Y E G W
 CCAGAGCTGCTGGAGATCGAGGGCTGCATGCCCCCGAAGCCATTTTAGGGTGGCTGTGGC
 P E L L E M E G C M P P K P F
 TCTTCTCAGCCAGGGCCCTGAAGAAGYTCCTGCCCTAGGAGTCANAGCCCCGGCAG
 GCTGNAGGAGGAGCAGGGGGTCTGCGTGGAAGGTGCTGCAGGCCTTGCACGCTGTG
 TCGCGCCT

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FIG. 5A CSG6

TGCTACTCAAGGTATTTACAACTTATGACACGAATGGTAGATACAGTGTAAAGTGCG
V Y S R Y F T T Y D T N G R Y S V K V R

GGCTCTGGAGGAGTTAACGCAGCCAGACGGAGAGTGATACCCAGCAGAGTGGAGCACT
A L G G V N A A R R R V I P Q Q S G A L

GTACATACCTGGCTGGATGAGAAATGATGAAATGGAATCCACCAAGACCTGAAAT
Y I P G W I E N D E I Q W N P P R P E I

TAATAAGGATGATGTTCAACACAAGCAAGTGTTTTCAGCAGAACATCCTCGGAGGCTC
N K D D V Q H K Q V C F S R T S S G G S

ATTTGTGGCTTCTGATGTCCCAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAAT
F V A S D V P N A P I P D L F P P G Q I

CACCGACCTGAAGCGGAAATTACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCC
T D L K A E I H G G S L I N L T W T A P

TGGGGATGATTATGACCATGGGAACAGCTCACAAAGTATATCATTCGAATAAGTACAAGTAT
G D D Y D H G T A H K Y I I R I S T S I

TCTTGATCTCAGAGACAAGTTCAATGAAATCTTCAAGTGAATACTACTGCTCTCATCCC
L D L R D K F N E S L Q V N T T A L I P

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FIG. 5B

FIG. 5B CSG6

AAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAGAAACATTACTTTTGAAAA
 K E A N S E E V F L F K P E N I T F E N

 TGGCACAGATCTTTTCATGCTATTCAGGCTGTTGATAAGGTCGATCTGAAATCAGAAAT
 G T D L F I A I Q A V D K V D L K S E I

 ATCCAACATTGCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGAGACACCTAG
 S N I A R V S L F I P P Q T P P E T P S

 TCCTGATGAAACGTCTGCTCCTGTCCTAATATTCATATCAACAGCACCATTCCTGGCA
 P D E T S A P C

 TTCACATTTTAAATTAATGTGGAAGTGGGTAGGAGAACTGCAGTGTCAATAGNCTAGG

 CGTGAATTTTGTGCGGTGAATAAATAATSAATTCANCCCTTTTGTGRTTTATATAAAAAA

 CGGNTNCCCATTTGGGNNNTNGGGGGGNNNTTTAA

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TABLE 263360

FIG. 6 CSG7

AGTCGCTCTCCTAGCCCTTCTCTGTGCTCACCCCTCTGGCAATGCCATTGAGCCAGGTC
V A L L A L L C A S P S G N A I Q A R S

TTCCTCCTATAGTGGAGAGTATGAGGTGCTGGTGGAAAGCGATTCTCTCATTTCTGGCAA
S S Y S G E Y G G G G K R F S H S G N

CCAGTGGACGGCCCCCATCACCGCCCTCCGGTCCGAGTCAACACATACTACATCGTAGG
Q L D G P I T A L R V R V N T Y Y I V G

TCTTCAGGTGCGCTATGGCAAGGTGTGGAGCGACTATGTGGGTGGTCGCAACGGAGACCT
L Q V R Y G K V W S D Y V G G R N G D L

GGAGGAGATCTTTCGACCCCTGGGGAATCAGTGATCCAGGTTTCTGGGAAGTACAAGTG
E E I F L H P G E S V I Q V S G K Y K W

GTACCTGAAGAAGCTGGTATTGTGTGACAGACAAGGCCCGCTATCTGTCTTTTGGGAAGA
Y L K K L V F V T D K G R Y L S F G K D

CAGTGGCACAAGTTTCAATGCCCGTCCCTTGACCCCAACACCGTGCTCCGCTTCATCAG
S G T S F N A V P L H P N T V L R F I S

TGGCCGCTCTGTTCTCTCATCGATGCCATTGGCCTGCACCTGGGATGTTTACCCACTAG
G R S G S L I D A I G L H W D V Y P T S
CTGCAGCAGATGCTGAGCCTCCTCTCTGTCAGGGGCACTGTGATGAGGAGTAAGAACT
C S R

CCTTATCACTAACCCCATC

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FIG. 7

FIG. 7 CSG8

TAAACTGCTGTTTGTTCCCTGCTGCTCTTGTCTTGGTTCGTATTTCAGTAAGTTTTCGGT
ATTCTCAAATTTTATCTAAATGGATAAACTATTAAACATAGAACATAAACCCCAATTCTCC
ATTTCATTTTCTCTTAGGCAATGAATCATACAAAACCTCAATATAGAGCAATGTTGTAAAT
GAATTGTTCTATTAAACAAAGAGGAGGTTCTAAGATATAAAGCCTCAGAGAACAGGAAGAA
AAGCGGGTCCATAAGAAGATGAGGTCTAACCGGGAAGATGCTGCTGAGAAGGCAGAGAC
AGATGTGGAAGAAATCTATCACCCAGTCATGTGCACCTGAATGTTCCACTGAAGTGGCAGT
TTACGACAAGGATGAAGTCTTTTCATTTTTCATGTTTTCAGCAAGCCATTCCCTAAACAGC
CCAACTGGCATTTAATTACCCAATACTGTATATAAGGCAAAATATGGACAGTTACTTTCCT
CTTGCCTGTTTCATATCCTTCAGTGACATTGAGGAAGCAGTGTTCCTCTTTTAAAGGGGA
ATAGTGTCAACCTTTCATCTCTTACATCTTTTCACCCCTCTCCTTTTTCCTTTG
ATTTTCCCCCTTATTGATGGGACTGATATTTCATCTCTGTTTTCATGAAACATTTGGAAACT
GTCCGGGCTTTTATTAAAGCTCTGTAGAAATTAAATGTTCTCGGAATTAT

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FOOTNOTES 2623650

FIG. 8 CSG9

CAGGAGGAGAGCCCTTCCCCAAGCAACAATCCAGAGCAGCTGTGCAACAACGGTGCCAT

AAATAAGGCCCTCCTGGACCATGAATGCGAGTCCGCTGAGCTGCGTACCGGAGCCCCACGGT

GGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGTCTGCTGGCCTTGCTGTCTCCAG
M A A R A L C M L G L V L A L L S S S

CTCTGCTGAGGAGTACGTGGGCCCTGTCTGCAAAACCAGTGTGCCCGTGCCAGCCAAGGACAG
S A E E Y V G L S A N Q C A V P A K D R

GGTGACTGCGGCTACCCCCCATGTCACCCCCAAGGAGTGCAACAACCGGGCTGCTGCTT
V D C G Y P H V T P K E C N N R G C C F

TGACTCCAGGATCCCTGGAGTGCCCTTGGTGTTTCAAGCCCCCTGACAGGAGCAGGAATG
D S R I P G V P W C F K P L T G K Q E C

CACCTTCTGAGGCACCTCCAGCTGCCCCCCCGCGGGGATGCGAGGCTCGGAGCACCCCT
T F *

TGCCCCGGCTGTGATTGCTGCCAGGCACTGTTCATCTCAGCTTTTCTGTCCCTTTGCTCCC

GGAAGCGCTTCTGCTGAAAGTTTCATATCTGGAGCCTGATGTTTAAACGTAGTCCCCATGCTC

CACCCGAAAAAATAAAAAAAAAAAAAA

FIG. 9B

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FIG. 9B CSG10

CTGGTCCCGGACATTGCCCATCAACAGCTGAACAGCCTGCCCCACCATGGAAGACCCCAA
G P G H C H Q Q L N S L P T M E G P P T

CCTTCAACCCCGCCTGTGCCATATTTCCGGAGGCTGCAAGAGGCTCACAGCTCGAAGAA
F N P P V P Y F G R L Q G G L T A R R T

CCATCATCAAGGGCTATGTGCCTCCCCACAGGCAAGAGCTTTGCTATCAACTTCAAGG
I I I K G Y V P P T G K S F A I N F K V

TGGCTCCTCAGGGACATAGCTCTGCCACATTAATCCCCGCATGGCAACGGTACCGTGG
G S S G D I A L H I N P R M G N G T V V

TCCGGAACAGCCTTCTGAATGGCTCGTGGGATCCGAGGAGAAGATCACCCACAACC
R N S L L N G S W G S E E K K I T H N P

CATTGGTCCCGGACAGTTCTTTGATCTGTCCATTTCGCTGTGCTTGATCGCTTCAAGG
F G P G Q F F D L S I R C G L D R F K V

TTTACGCCAATGGCCAGCACCTCTTTGACTTTTGCCCATCGCCCTCTCGGCCTTCCAGAGGG
Y A N G Q H L F D F A H R L S A F Q R V

TGGACACATGGAAATCCAGGGTGATGTCACCTTGTCTCTATGTCCAGATCTAATCTATTC
D T L E I Q G D V T L S Y V Q I
CTGGGCCATAACTCATGGGAAAACAGAAATTATCCCCCTAGGACTCTTTCTAAGCCCCCTA

ATAAAATGTCTGAGGGTGTCTCAAAAAAATAAAAAA

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TABLE "E" 223355D

FIG. 10 CSG11

GTTGATATTAAACCAAGTGAACCAACATGACACCTCTCTGAAACCTATTAGTCTCTCC
V D I K T S E T K H D T S L K P I S V S

TACAACCCAGCCACAGCCAAAGAAATTATCAATGTGGGCATTCTTCCATGTAAATTTT
Y N P A T A K E I I N V G H S F H V N F

GAGGACAACGATAACCGATCAGTGCTGAAGGTGTCCTTTCTCTGACAGCTACAGGCTC
E D N D N R S V L K G G P F S D S Y R L

TTTCAGTTCATTTCACCTGGGGCAGTACAAATGAGCATGGTTCAGAACATACAGTGGAT
F Q F H F H W G S T N E H G S E H T V D

GGAGTCAAAATATTCTGCCGAGCTTCACGTGGCTCACTGGAATTCTGCAAGTACTCCAGC
G V K Y S A E L H V A H W N S A K Y S S
CTTGCTGAAGCTGCCCTCAAAGGCTGATGGTTGGCAGTTATTGGTGTTTTGATGAAGGT
L A E A A S K A D G L A V I G V L M K V
GGTGAGGCCCAACCCAAAGCTGCAGAAAGTACTTGATGCCCTCCCAAGCAATTAAACCAAG
G E A N P K L Q K V L D A L Q A I K T K
GGCAAACGAGCCCCATTACACAAATTTTGACCCCTCTACTCTCCTTCCTTCATCCCTGGAT
G K R A P F T N F D P S T L L P S S L D

TTCTGGACCTACCCCTGGCTCTCTGACTCATCCTCCTCTTTATGAGAGTGTAACTTGGATC
F W T Y P G S L T H P P L Y E S V T W I
ATCTGTAAGGAGAGCATCAGTGTCAAGTTCAGAGCAGTTGGCACAATTCCGGAGCCTTCTA
I C K E S I S V S S E Q L A Q F R S L L

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FIG. 11 CSG12

CGCTCCGGCGGGCGTGGCCAGTACTAGAAAGCGGAGCGCGCGGACCATGGCGCG
G S G R A W P V T R R G A A G P W R R

GCGGCGAGCGGAGTCCAGAGCGGAGAACGAGGAGGAGGAGGAGTGTCTCT
R R T S G V Q R R E D E E E E Q L V L

GGTGGAATTATCAGGAATTATTGATTCAGACTTCCTCTCAAAATGTGAAAATAATGCAA
V E L S G I I D S D F L S K C E N K C K

GGTTTGGGCATTGACACTGAGAGGCCCATTCCTGCAATGGACAGCTGTGTCTTTGCTGG
V L G I D T E R P I L A M D S C V F A G

GGAGTATGAGACACTCTAGGGACCTGTGTTATATTGAAGAAAATGTTGACATGCTGA
E Y E D T L G T C V I F E E N V E H A D

TACAGAAGGCAATAATAAACAGTGTCTAAATATAATGCCCATACAAATGAAGAAGCTCAG
T E G N N K T V L K Y K C H T M K K L S

CATGACAAGAACTCTCCTGACAGAGAAGGAGAGAAGAAACATAGTGGGTGGA
M T R T L L T E K K E G E E N I G G V E

ATGGCTGCAATAAGGATATGGTTTCTCCCTTTGACCCCAACAGGTTTGTAACTTTTCTA
W L Q I R I W F L P L T Q Q V C

CCATGAAATTGAGGACGAGGAAGTGGTAGCTTTCAGCCCCCGTTAAATCTTTGGATTTCGG
AGGGGGTGGGTTTCAATG

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FIG. 12 CSG13

GTGGCAGAAAGATAGGTTGGAGACAATTGATTCCTCGATGATATAAAAATGTTAAGTA

CCATGAATGNAATGCTGTTAGGCTGGAATGCGCCAAGATAAAAGGTGGGCGCATGGCATCAA

AAGGTAGGTCAACATATTAATAAATTCCCATGTATTTGAAATATCCAGAAATATATAGACA

GATCTATAGAGATAGAAACTGGTCTGCCCCAGGACTAGGGGTGTCTAAGGATAAGGAGCT

TCTTTTTCGGATGGTGAAATAACCTAAAAATATATTGTGCCCATTTGTTGCCACAACCTTTGTG

GAATATATTAATAAACCGGTTAATTGTACTCACTAAAAATGTCCCTCTTAAATTTAAGC

TGTTTNCCTGGACAGAAAGGGAAGNNACCAAGGGGNAAAAAATTTT

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FIG. 13 CSG14

GCCCTGGGCTTTGGGGGCTCCAAACATGTTATGCAGAAATGTGATGTTACAGGTCAG
TACAACCTCAGTCCTTAGAACCCCTCCACACTTCAGCTCTGCCACCCACTTTCCCTGTCATT
TATTTATATAGGACTGTAGTTTTTTTTTAGTTCGAGAGCCCTTTCGAAGCTTAATTTATATT
CTTCTTTGTACCTTTTTTCTAAATTACCAAGATATTACACAAAGGTAAATTAAATGTT
CTCTGTTTTATGCTTTATCTGATGGAGGCAAAATATCCTCTTATTGTTGATCAAAGGGGC
AAAAGAAATTTAGAGGCAAAATGAACAAGCGATAGGCTATTGCCAACCTGAGAAAGAGAACTG
NTCCTTCCATCGTAAATTTAGNAGNCCAAAGTAGGTAATGGGAACCAAGTTGTACTTTT
TTCTAGTAGTTATTTTCCCTTTTTTNNTTTTTTGTGGTACCCTCTTACAGNGNCCCAAACCT
CCATTCTCTTTAAAGGGGTTTTTATGGGGGCTTACTGCAGGTTAAAAATTGGGGNCCAC
CATTTTTAAAGGGGCTACCAGAGGGAGGGGGTCCCCNTTNCNAAAAAAATG